

AUG 24 2007

Application No. 10/737,252
Amendment dated August 24, 2007
After Final Office Action of May 30, 2007

Docket No.: ALEX-P02-077

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-8 and 10-11 without prejudice. Please amend claims 9 and 12. This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1-8. (Canceled)

9. (Currently amended) A library of IgA antibodies prepared in accordance with a method, said method comprising:

a) providing a diverse population of templates that encode at least a portion of an IgA antibody;

b) contacting the diverse population of templates with at least one primer, the at least one primer having a first portion which anneals to the templates and a second portion of predetermined sequence which does not anneal to the templates;

c) synthesizing polynucleotides that are complementary to the portion of the templates between the location at which the first portion of the primer anneals to the template and the end of the templates, each of the polynucleotides having a primer at a first end thereof and a second end;

d) separating the polynucleotides synthesized in step (c) from the templates;

e) annealing at least one template oligonucleotide to the second end of the polynucleotides synthesized in step (c), the at least one template oligonucleotide having a first portion that anneals to the second end of the polynucleotides and a second portion having the same predetermined sequence as the second portion of the primer;

f) extending the polynucleotides synthesized in step (c) to provide a terminal portion thereof that is complementary to the predetermined sequence; and

g) amplifying the extended polynucleotides using only a single primer having the predetermined sequence.

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10-11. (Canceled)

12. (Currently amended) The library of IgA antibodies of claim 9, wherein ~~the step of annealing a primer to a template that encodes at least a portion of an antibody comprises annealing~~ at least one primer of step (b) that comprises a sequence selected from the group consisting of:

CTCGAGCAGGTCAGCTGGTGCAG, (SEQ ID NO 296),
CTCGAGCAGGTCCAGCTTGTGCAG, (SEQ ID NO 297),
CTCGAGSAGGTCCAGCTGGTACAG, (SEQ ID NO 298),
CTCGAGCARATGCAGCTGGTGCAG, (SEQ ID NO 299),
CTCGAGCAGATCACCTTGAAGGAG, (SEQ ID NO 300),
CTCGAGCAGGTACCTTGARGGAG, (SEQ ID NO 301),
CTCGAGGARGTGCAGCTGGTGGAG, (SEQ ID NO 302),
CTCGAGCAGGTGCAGCTGGTGGAG, (SEQ ID NO 303),
CTCGAGGAGGTGCAGCTGTTGGAG, (SEQ ID NO 304),
CTCGAGCAGSTGCAGCTGCAGGAG, (SEQ ID NO 305),
CTCGAGCAGGTGCAGCTACAGCAG, (SEQ ID NO 306),
CTCGAGGARGTGCAGCTGGTGCAG, (SEQ ID NO 307),
CTCGAGCAGGTACAGCTGCAGCAG (SEQ ID NO 308) and
CTCGAGCAGGTSCAGCTGGTGCAA, (SEQ ID NO 309),

wherein R is A or G, K is G or T, and S is C or G.